

ABSTRACT OF THE DISCLOSURE

5 A multiple working range scanner includes a collection mirror which is
segmented, with each segment having differing optical properties, such as focal
length, optical axis, and so on. Differing segments or combinations of
segments deal with reflected light received at differing working ranges, and
direct it to a photodetector. In another embodiment, beam shaping may be
10 applied to an astigmatic laser beam, for example by means of a part-concave
mirror, to create an x waist in the beam which is further from the scanner than
the y waist. This provides enhanced performance when the scanner is used on
a bar code symbol which is not accurately aligned. In order to provide
improved optical alignment within a bar code scanner, the collection mirror
15 may be adjustable both in the x direction and in the y direction.

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